

ACS ARRIVAL MODING

NOTE

For ISS assembly flight 3A, this procedure is to be performed by Ground Only.

1. VERIFY ACS MODING PRE-ARRIVAL CONFIGURATION AND STATUS

NOTE

Arrival Mode initialization should be performed one hour before entering the Orbiter prox-ops phase.

PCS

MCS: ACS Moding

ACS Moding

'ACS Configuration'

√Moding Role Primary, Secondary NCS - Full

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*****
* If Primary/Secondary NCS Moding Role is not set to Full, *
* then the following commands should be sent:              *
*                                                           *
*     sel Moding Role                                       *
*                                                           *
*     cmd N1-1 - Arm                                       *
*     cmd N1-2 - Arm                                       *
*     √Arm Status Primary, Secondary NCS - Arm            *
*                                                           *
*     cmd N1-1 - Full                                       *
*     cmd N1-2 - Full                                       *
*     √Moding Role Primary, Secondary NCS - Full          *
*     √Arm Status Primary, Secondary NCS - Disarm         *
*****
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√RS Mode Primary, Secondary NCS - Cntl

'Arrival'

√PMA2 Arrival Response SW Primary, Secondary NCS - Inh

PCS

2. ENABLE APAS LED LIGHTING

MCS: ACS Moding

ACS Moding

NOTE

Each of the primary and secondary commands turns on two of the four LED ACS indication lights (i.e., 4 total). LED configuration: On - Station Active Attitude Control, Off - Software Off, Flash - Station in Free-Drift.

'ACS Configuration'

sel LED Control SW

'Primary NCS'

cmd Enable

√LED Control SW - Ena

√PMA2 LED State - On

'Secondary NCS'

cmd Enable

√LED Control SW - Ena

√PMA2 LED State - On

Visual verification by Orbiter crew that LED indicators are On
(-Z window).

NOTE

If Orbiter crew determines LEDs are not on, verify with
MCC-H/MCC-M that ISS is in active attitude control.

3. ENABLE ARRIVAL SOFTWARE SWITCH MONITORING FOR ACS

MODING

'Arrival'

sel PMA2 Arrival Response SW

'Primary NCS'

cmd Enable

√Arrival SW - Ena

'Secondary NCS'

cmd Enable

√Arrival SW - Ena

* If Primary/Secondary NCS Arrival Response SW Arm needs *
* to be inhibited (wave off, etc), then the following commands *
* should be sent: *

* sel PMA 2 Arrival Response SW *

* 'Primary, Secondary NCS' *

* **cmd** Inhibit - Arm *

* √Arm Status - Arm *

* **cmd** Inhibit *

* √PMA 2 Arrival SW - Inh *

* √Arm Status - Disarm *

4. ATTITUDE CONTROL SYSTEM ARRIVAL MONITORING AND MODING
Verify **MCC-H/MCC-M** Go for Orbiter Arrival/Docking

Monitor the following signals during the docking phase.

'Arrival'

√PMA2 Capture Long Primary, Secondary NCS - X

√Arrival Event Primary NCS - X

√Arrival Event Secondary NCS - X

'ACS Configuration'

√RS Mode - Drift

√PMA2 LED State Primary, Secondary NCS - Flash

Visual verification by Orbiter crew that LED indicators are Flashing
(-Z window).

NOTE

1. If Orbiter crew determines LEDs are not flashing, verify with **MCC-H/MCC-M** that ISS is in Free Drift.
2. The following 'Departure' signals may take up to 17 minutes before occurring.

'Departure'

√PMA2 Interface Sealed Primary, Secondary NCS - X

√PMA2 Undocking Complete Primary, Secondary NCS - Blank